

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application.

Listing of Claims:

1. (currently amended) A method for acquiring a transmitted spread-spectrum signal in a spread-spectrum communications system, ~~said~~ the method comprising:

(a) locating a sequence within a secondary synchronization sub-channel of a received spread-spectrum signal;

(b) filtering a first set of taps corresponding to ~~said~~ the sequence;

(c) filtering a second set of taps corresponding to ~~said~~ the sequence;

(d) filtering a predetermined number of taps from ~~steps (b) and (c)~~ the first set of taps and the second set of taps; and

(e) ~~recognizing said sequence based on an output of step (d)~~ determining an identity of the sequence based on the predetermined number of taps.

2. (currently amended) The method of claim 1, further comprising:

determining a magnitude of ~~an output of filtering step (b)~~ a number of taps of the first set of taps;

determining a magnitude of ~~an output of filtering step (c)~~ a number of taps of the second set of taps;

determining a magnitude of ~~an output of filtering step (d)~~ the predetermined number of taps; and

adding the magnitudes of ~~the outputs of said filtering steps (b), (c), and (d)~~ the numbers of the first and second sets of taps and the predetermined number of taps.

3. (currently amended) The method of claim 2, further comprising:

performing peak detection on the added magnitudes; and

acquiring a secondary synchronization code based on ~~said~~ the peak detection.

4. (currently amended) The method of claim 1, wherein ~~said~~ the first set of taps and ~~said~~ the second set of taps include a same number of taps.

5. (currently amended) The method of claim 4, wherein ~~said~~ the first set of taps corresponds to a first half of ~~said~~ the taps ~~corresponding to said~~ of the sequence and ~~said~~ the second set of taps corresponds to a second half of ~~said~~ the taps ~~corresponding to said~~ of the sequence.

6. (currently amended) The method of claim 4, wherein ~~said~~ the predetermined number of taps ~~equal said~~ equals the same number of taps.

7. (canceled)

8. (currently amended) The method of claim 1, wherein ~~said~~ the predetermined number of taps include a same number of taps derived from ~~steps (b) and (c)~~ the first and second sets of taps.

9. (currently amended) The method of claim 1, wherein ~~said~~ the sequence is a Hadamard sequence.

10. (canceled)

11. (currently amended) The method of claim 1, wherein ~~said~~ the spread-spectrum signal is a CDMA signal.

12. (currently amended) A system for acquiring a transmitted spread-spectrum signal, comprising:

a circuit which locates a sequence within a secondary synchronization sub-channel of ~~a~~ the transmitted spread-spectrum signal;

a first matched filter which filters a first set of taps corresponding to ~~said~~ the sequence;

a second matched filter which filters a second set of taps corresponding to ~~said~~ the sequence; and

a third matched filter which filters a predetermined number of taps overlapping taps by ~~said~~ the first matched filter and ~~said~~ the second matched filter, wherein an output of ~~said~~ the third matched filter provides a basis for determining an identity of ~~said~~ the sequence.

13. (currently amended) The system of claim 12, further comprising:

a plurality of magnitude determining circuits for respectively determining magnitudes of outputs of ~~said first, second, and third matched filters~~ the number of taps of the first and second matched filters and the output of the third matched filter; and

a summation circuit for adding ~~said~~ the magnitudes.

14. (currently amended) The system of claim 13, further comprising:

a peak detection circuit for processing an output of ~~said~~ the summation circuit,

wherein peak detection information derived from ~~said~~ the peak detection circuit provides a basis for determining a secondary synchronization code of ~~said~~ the transmitted spread-spectrum signal.

15. (currently amended) The system of claim 12, wherein ~~said~~ the first set of taps and ~~said~~ the second set of taps include a same number of taps.

16. (currently amended) The system of claim 15, wherein ~~said~~ the first set of taps corresponds to a first half of ~~said~~ the taps ~~corresponding to said~~ of the sequence and ~~said~~ the second set of taps corresponds to a second half of ~~said~~ the taps ~~corresponding to said~~ of the sequence.

17. (currently amended) The system of claim 15, wherein ~~said~~ the predetermined number of taps ~~equal~~ said equals the same number of taps.

18. (canceled)

19. (currently amended) The system of claim 12, wherein ~~said the~~ predetermined number of taps includes a same number of taps from ~~said the~~ first matched filter ~~as from~~ ~~said and the~~ second matched filter.

20. (currently amended) The system of claim 12, wherein ~~said the~~ sequence is a Hadamard sequence.

21. (canceled)

22. (currently amended) The system of claim 12, wherein ~~said the~~ spread-spectrum signal is a CDMA signal.

23. (currently amended) A matched filter for acquiring a transmitted spread-spectrum signal, ~~said the~~ signal including a sequence located within a secondary synchronization sub-channel of ~~said the~~ signal, ~~said the~~ filter comprising:

- a first filter portion which filters a first set of taps corresponding to ~~said the~~ sequence;

- a second filter portion which filters a second set of taps corresponding to ~~said the~~ sequence; and

- a third filter portion which filters a predetermined number of taps overlapping taps by ~~said the~~ first filter portion and ~~said the~~ second filter portion, wherein an output of ~~said the~~ third filter portion provides a basis for determining an identity of ~~said the~~ sequence.